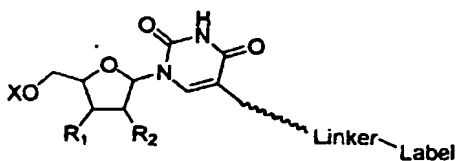
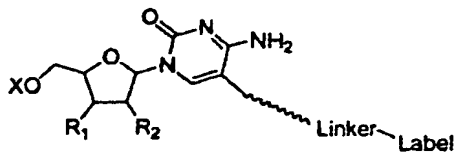


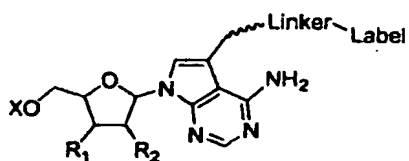
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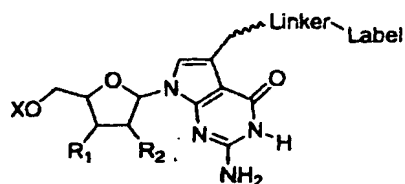
Uridine C5-linker



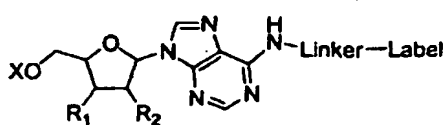
Cytidine C5-linker



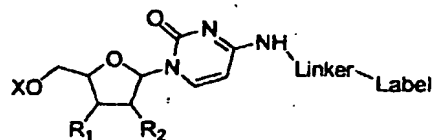
N7 Deazaadenosine C7-linker



N7 Deazaguanosine C7-linker



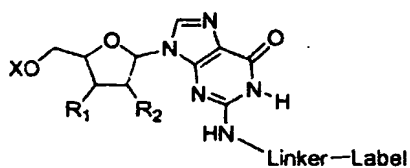
Adenosine N6-linker



Cytidine N4-linker

where  $R_1$  and  $R_2$ , which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH. Suitable groups for  $R_1$  and  $R_2$  are described in Figure 3

X = H, phosphate, diphosphate or triphosphate



Guanosine N2-linker

Fig. 1

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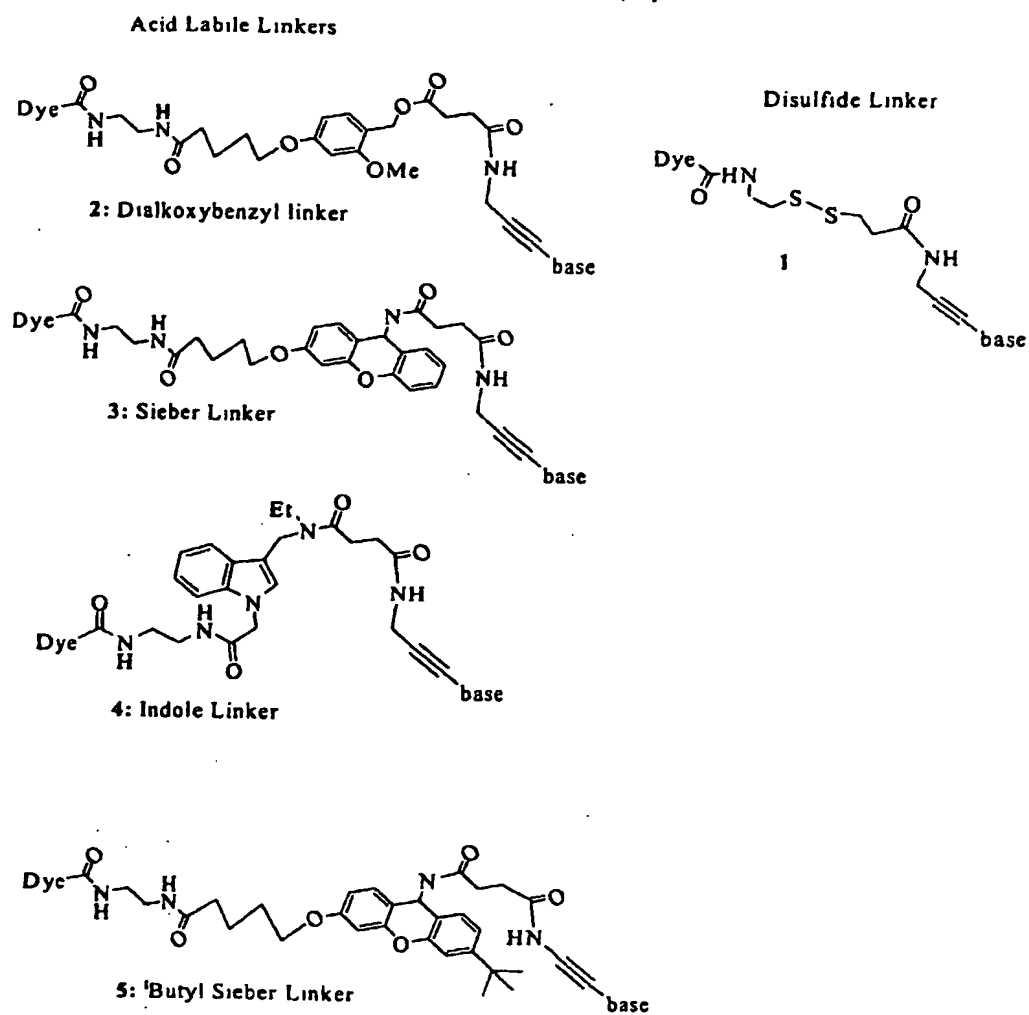
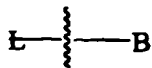
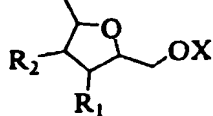


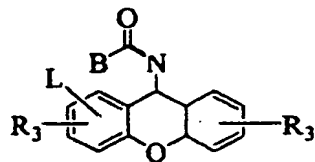
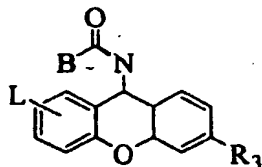
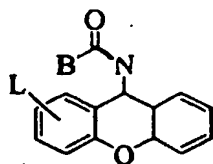
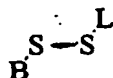
Fig. 2

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Label ~~~Cleavable linker~~~Base



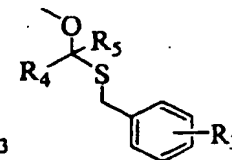
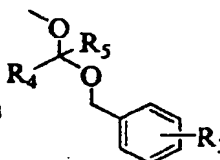
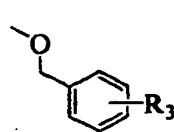
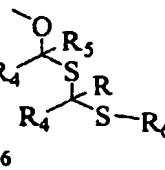
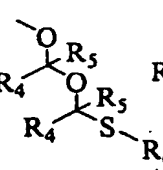
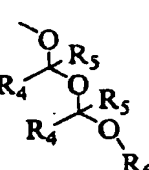
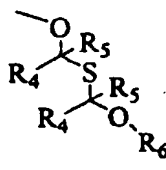
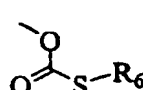
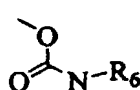
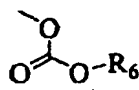
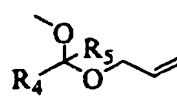
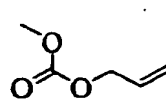
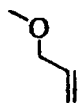
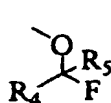
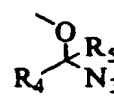
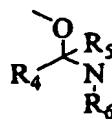
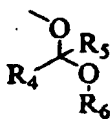
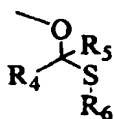
Cleavable linkers may include:



R3 represents one or more substituents independently selected from alkyl, alkoxy, amino or halogen

Alternatively, cleavable linkers may be constructed from any labile functionality used on the 3'-block

where R<sub>1</sub> and R<sub>2</sub>, which may be the same or different, are each selected from H, OH, or any group which can be transformed into an OH, including a carbonyl

R<sub>1</sub> and R<sub>2</sub> groups may include

where R<sub>4</sub> is H or alkyl, R<sub>5</sub> is H or alkyl and R<sub>6</sub> is alkyl, cycloalkyl, alkenyl, cycloalkenyl or benzyl

and X is H, phosphate, diphosphate or triphosphate

Fig. 3

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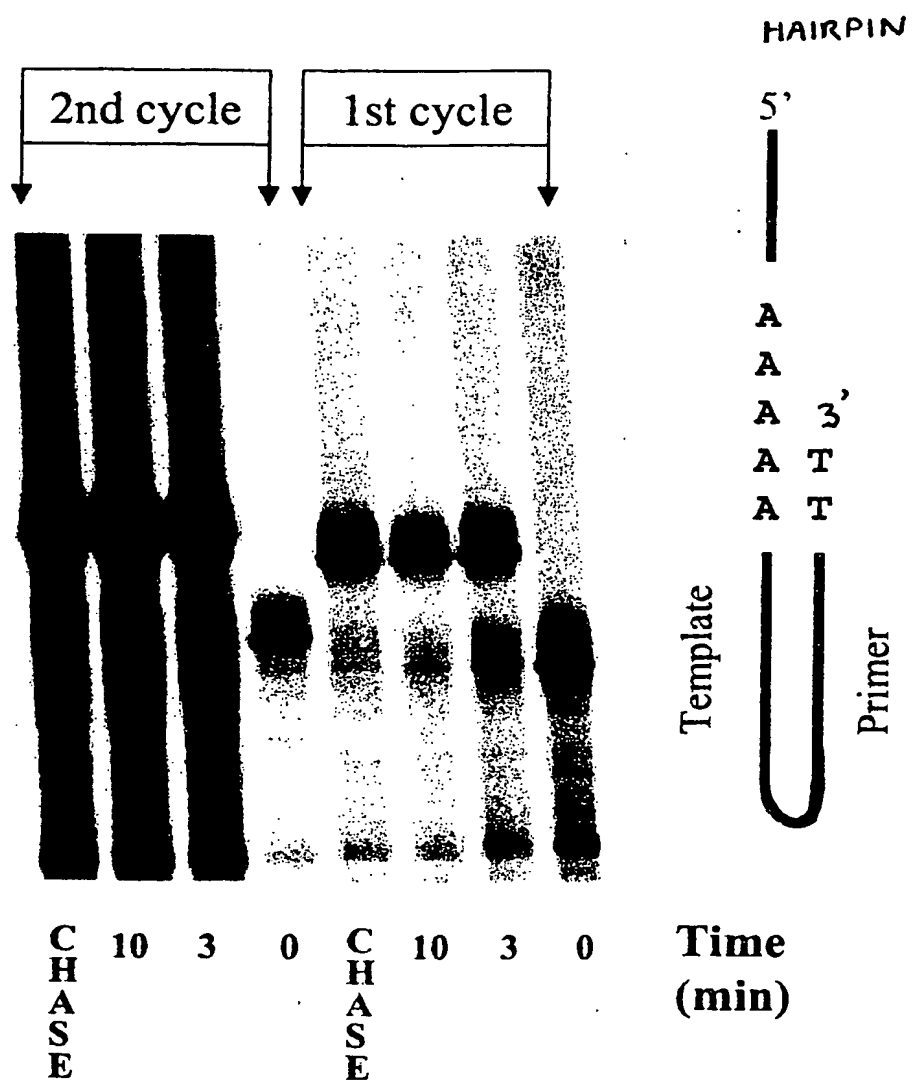


Fig. 4